1. Record Nr. UNINA9910983323103321

Autore	Chen Tin-Chih Toly
Titolo	Supply Chain Localization in the Semiconductor Industry : Rebuilding the Competitiveness and Sustainability of Semiconductor Manufacturers / / by Tin-Chih Toly Chen
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031812804 3031812808
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (215 pages)
Disciplina	658.7
Soggetti	Business logistics Industrial engineering Production engineering Engineering design Operations research Management science Logistics Industrial and Production Engineering Engineering Design Operations Research, Management Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Semiconductor Supply Chain Management -- Localization of Semiconductor Supply Chains: Driving Forces and Challenges -- Issues in Managing Localized Semiconductor Supply Chains -- Qualitative and Quantitative Analysis of Semiconductor Supply Chain Localization -- Rebuilding Semiconductor Manufacturing Competitiveness and Sustainability through Supply Chain Localization.
Sommario/riassunto	This book provides a comprehensive exploration of semiconductor supply chain localization, offering insights into the formulation of effective strategies and ways to enhance the competitiveness and sustainability of semiconductor manufacturers through supply chain localization. The semiconductor industry is currently witnessing a

significant localization wave, with a growing trend of wafer foundries relocating their production capacity closer to chip designers. This shift is primarily driven by factors such as the US-China trade war, geopolitical considerations, the impact of Covid-19, the Russia-Ukraine conflict, and the increasing importance of environmental awareness. By localizing semiconductor supply chains, companies can effectively address these challenges while also improving their competitive edge and ensuring long-term sustainability in the face of political and war risks. However, achieving supply chain localization in the semiconductor industry is a complex endeavor, as traditional factors considered in semiconductor supply chain management may no longer be decisive. Moreover, existing research on the subject is often scattered across various journal issues and conference proceedings, necessitating a systematic integration of these findings. Furthermore, most of the available supply chain management-related books do not specifically focus on this topic. This book aims to bridge these gaps by providing a comprehensive resource that combines relevant references, real-world cases, and supporting evidence. .